

TDMS No. 96019-05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344

P11: STATISTICAL ANALYSIS OF SURVIVAL DATA
WATER DISINFECTION BYPRODUCTS (BROMOCHLOROACETIC ACID)
CAS Number: 5589-96-8
Pathologist: GILES, H. - HEATH, J. - Blackshear, P.
F1_R2

Date Report Requested: 03/28/2006
Time Report Requested: 15:08:35
First Dose M/F: 09/26/01 / 09/26/01
Lab: SRI

C Number:	C96019		
Lock Date:	07/14/2004		
Cage Range:	1 - 9999		
Date Range:	1-JAN-1940 to 17-SEP-2040		
Reasons For Removal:	25021 Terminal Sacrifice	25020 Natural Death	25019 Moribund Sacrifice
Removal Date Range:	JAN /1 /1940 - SEP /17 /2040		
Treatment Groups:	Include 1 0 MG/L	Include 2 0 MG/L	Include 3 250 MG/L
	Include 4 250 MG/L	Include 5 500 MG/L	Include 6 500 MG/L
	Include 7 1000 MG/L	Include 8 1000 MG/L	

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MALE RATS

FIRST TERMINAL SACRIFICE AT 729 DAYS
INDIVIDUAL SURVIVAL TIMES (DAYS)

DOSE = 0 MG/L

TOTAL	50	UNCENSORED DEATHS				19	CENSORED DEATHS				0	TERMINAL				31
UNCENSORED DEATHS																
	337	504	525	525	586	601	608	609	614	631	637	647	668	679		
	692	701	703	715	726											
CENSORED DEATHS																
None																

DOSE = 250 MG/L

TOTAL	50	UNCENSORED DEATHS				24	CENSORED DEATHS				0	TERMINAL				26
UNCENSORED DEATHS																
	504	525	540	549	555	576	596	609	609	618	618	631	637	666		
	668	668	671	679	694	702	703	713	713	727						
CENSORED DEATHS																
None																

DOSE = 500 MG/L

TOTAL	50	UNCENSORED DEATHS				25	CENSORED DEATHS				0	TERMINAL				25
UNCENSORED DEATHS																
	321	366	450	479	549	555	561	575	581	596	607	609	609	631		
	646	652	667	674	679	679	696	704	717	727	727					
CENSORED DEATHS																
None																

DOSE = 1000 MG/L

TOTAL	50	UNCENSORED DEATHS				21	CENSORED DEATHS				0	TERMINAL				29
UNCENSORED DEATHS																

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MALE RATS
FIRST TERMINAL SACRIFICE AT 729 DAYS
INDIVIDUAL SURVIVAL TIMES (DAYS)

357	380	434	468	510	521	556	588	630	631	631	639	652	667
674	682	682	687	699	717	727							
CENSORED DEATHS													
None													

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KAPLAN-MEIER SURVIVAL PROBABILITY ESTIMATES (%)										
DOSE	TIME (DAYS)									
	90	180	270	365	425	485	545	605	665	729(A)
0 MG/L	100.0	100.0	100.0	98.0	98.0	98.0	92.0	88.0	76.0	62.0
250 MG/L	100.0	100.0	100.0	100.0	100.0	100.0	94.0	86.0	74.0	52.0
500 MG/L	100.0	100.0	100.0	98.0	96.0	92.0	92.0	80.0	68.0	50.0
1000 MG/L	100.0	100.0	100.0	98.0	96.0	92.0	88.0	84.0	74.0	58.0

- (A) FIRST TERMINAL SACRIFICE
 (B) THE FIRST ENTRY IS THE TREND TEST (TARONE, 1975) RESULT. SUBSEQUENT ENTRIES ARE THE RESULTS OF PAIRWISE TESTS (COX, 1972). NEGATIVE TRENDS ARE INDICATED BY "N".
 (C) MEAN OF ALL UNCENSORED DEATHS PRIOR TO TERMINAL SACRIFICE
 (D) MEAN OF ALL DEATHS (UNCENSORED, CENSORED, TERMINAL SACRIFICE)

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SURVIVAL SUMMARY STATISTICS				
DOSE	0 MG/L	250 MG/L	500 MG/L	1000 MG/L
SURVIVAL AT END OF STUDY (KAPLAN-MEIER)	62.0%	52.0%	50.0%	58.0%
SIGNIFICANCE (B) (LIFE TABLE)	P=0.826	P=0.434	P=0.277	P=0.774
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)	616.2 (21.6)	632.1 (13.4)	602.3 (21.3)	596.8 (24.2)
MEAN LIFE SPAN (D) (STANDARD ERROR)	686.1 (11.2)	682.5 (9.4)	665.6 (13.9)	673.5 (13.7)

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FEMALE RATS
FIRST TERMINAL SACRIFICE AT 729 DAYS
INDIVIDUAL SURVIVAL TIMES (DAYS)

DOSE = 0 MG/L

TOTAL	50	UNCENSORED DEATHS	16	CENSORED DEATHS	0	TERMINAL	34
UNCENSORED DEATHS							
411	468	483	505	505	525	612	634
694	725						
CENSORED DEATHS							
None							

DOSE = 250 MG/L

TOTAL	50	UNCENSORED DEATHS	19	CENSORED DEATHS	0	TERMINAL	31
UNCENSORED DEATHS							
395	493	507	525	568	584	596	610
679	682	682	699	707			
CENSORED DEATHS							
None							

DOSE = 500 MG/L

TOTAL	50	UNCENSORED DEATHS	13	CENSORED DEATHS	0	TERMINAL	37
UNCENSORED DEATHS							
30	478	540	627	629	631	637	652
CENSORED DEATHS							
None							

DOSE = 1000 MG/L

TOTAL	50	UNCENSORED DEATHS	15	CENSORED DEATHS	0	TERMINAL	35
UNCENSORED DEATHS							
258	381	604	618	636	637	660	668

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717
CENSORED DEATHS
None

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INDIVIDUAL SURVIVAL TIMES (DAYS)

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 FIRST TERMINAL SACRIFICE AT **729** DAYS

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KAPLAN-MEIER SURVIVAL PROBABILITY ESTIMATES (%)										
DOSE	TIME (DAYS)									
	90	180	270	365	425	485	545	605	665	729(A)
0 MG/L	100.0	100.0	100.0	100.0	98.0	94.0	88.0	88.0	82.0	68.0
250 MG/L	100.0	100.0	100.0	100.0	98.0	98.0	92.0	86.0	78.0	62.0
500 MG/L	98.0	98.0	98.0	98.0	98.0	96.0	94.0	94.0	84.0	74.0
1000 MG/L	100.0	100.0	98.0	98.0	96.0	96.0	96.0	94.0	86.0	70.0

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SURVIVAL SUMMARY STATISTICS				
DOSE	0 MG/L	250 MG/L	500 MG/L	1000 MG/L
SURVIVAL AT END OF STUDY (KAPLAN-MEIER)	68.0%	62.0%	74.0%	70.0%
SIGNIFICANCE (B) (LIFE TABLE)	P=0.572N	P=0.694	P=0.613N	P=0.901N
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)	597.8 (24.5)	613.1 (19.3)	593.3 (50.7)	619.4 (33.1)
MEAN LIFE SPAN (D) (STANDARD ERROR)	687.0 (11.6)	684.9 (10.8)	693.7 (15.4)	696.1 (12.0)

*** END OF REPORT ***

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